



Queens

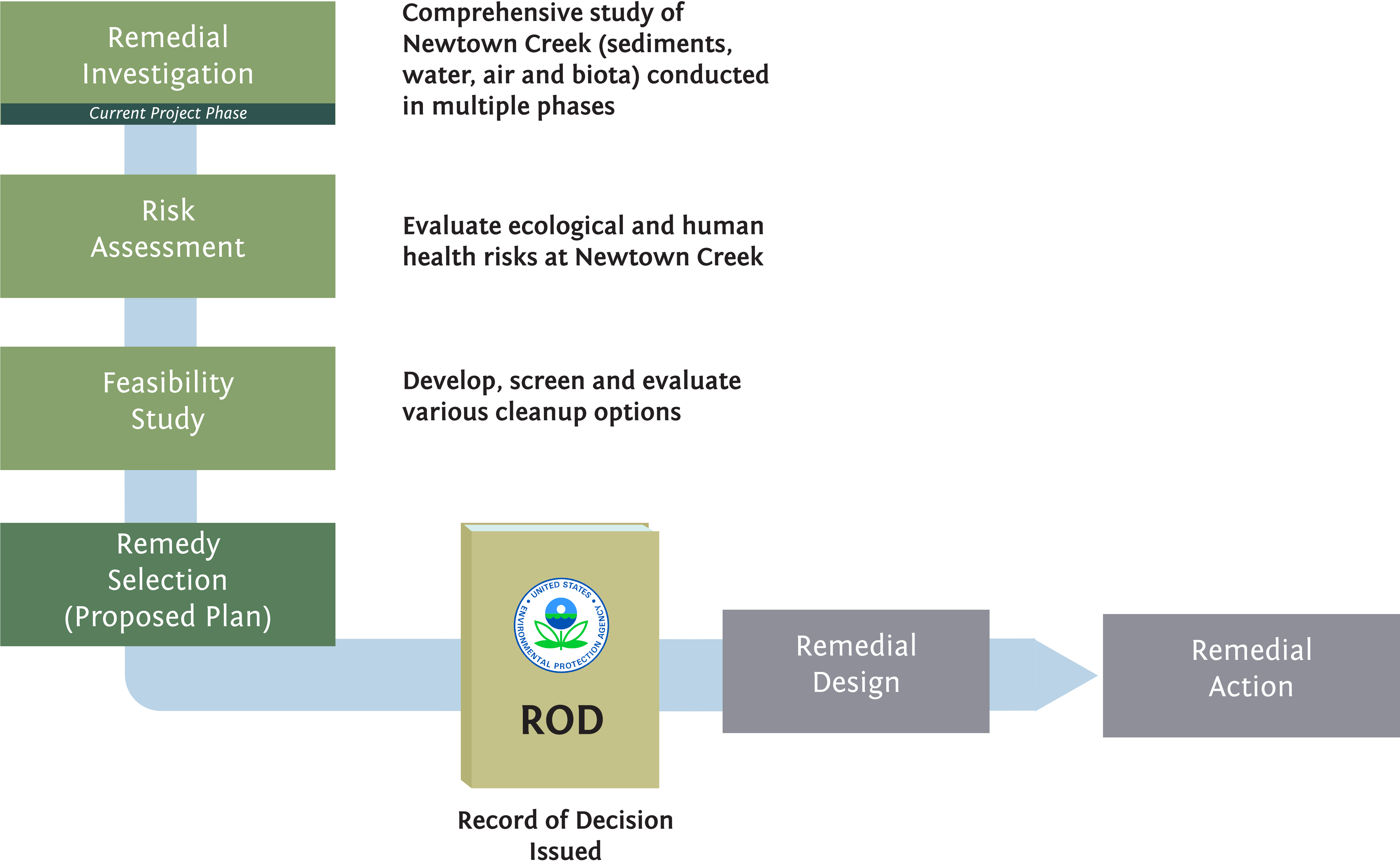
Brooklyn

East River





# Remedial Investigation/Feasibility Study Process for Newtown Creek



# Upcoming Project Activities in 2012

## Winter 2011-2012

- Interpret Fall 2011 survey data (will be completed in November 2011)
- Prepare for Spring field work
- Conduct upland and historic site research
- Initiate modeling work

## Summer 2012

- Interpret Phase 1 data
- Continue Phase 1 sampling
- Implement Phase 1A field work
  - Further investigate high priority suspected on-going sources
  - Collect reference site characterization data
- Prepare Pathways Analysis Report
  - Used in risk assessment

## Spring 2012

- Phase 1 sampling
  - Sediments
  - Water
  - Air
- Prepare Data Applicability Report
- Prepare Phase 1A Work Plan
  - Follow-on source identification work
  - Follow-on reference site sampling

## Fall 2012

- Prepare Sources Sampling Approach Memo
  - Focus on investigating pipe discharges
- Complete Screening Level Ecological Risk Assessment
  - Compare Phase 1 data to screening values
- Continue interpreting Phase 1 Data
- Conduct Phase 1 water sampling
- Start planning for Phase 2 effort and Baseline Ecological Risk Assessment Workshop



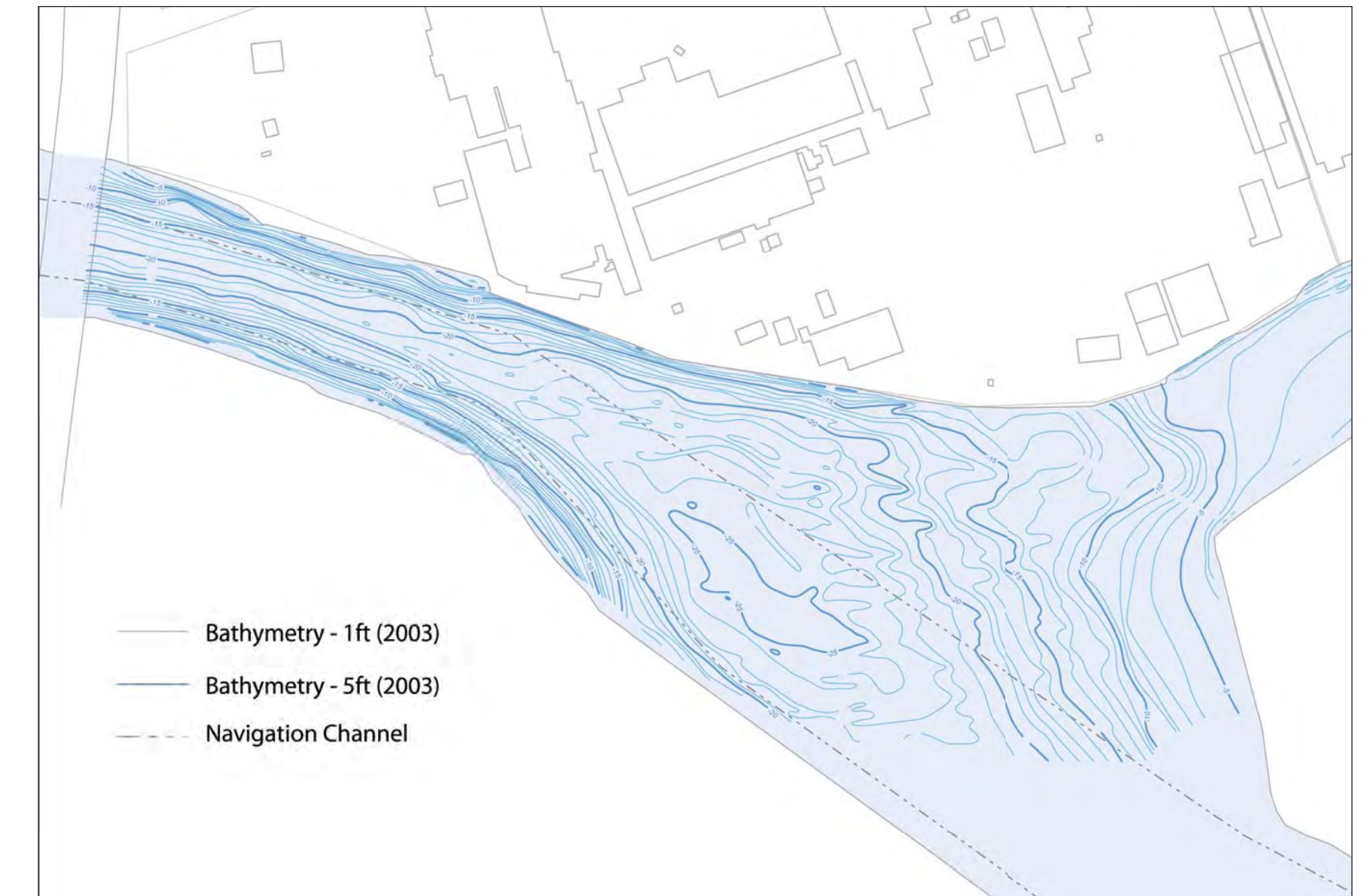
# Newtown Creek Surveys Currently Underway: Below the Water Surface

## Bathymetric Survey Activities

- Measure water depths throughout the creek
- Document the geometry of the creek bottom



*Bathymetry map example near mouth of Newtown Creek*



*Bathymetry map example of Newtown Creek/Maspeth Creek vicinity*

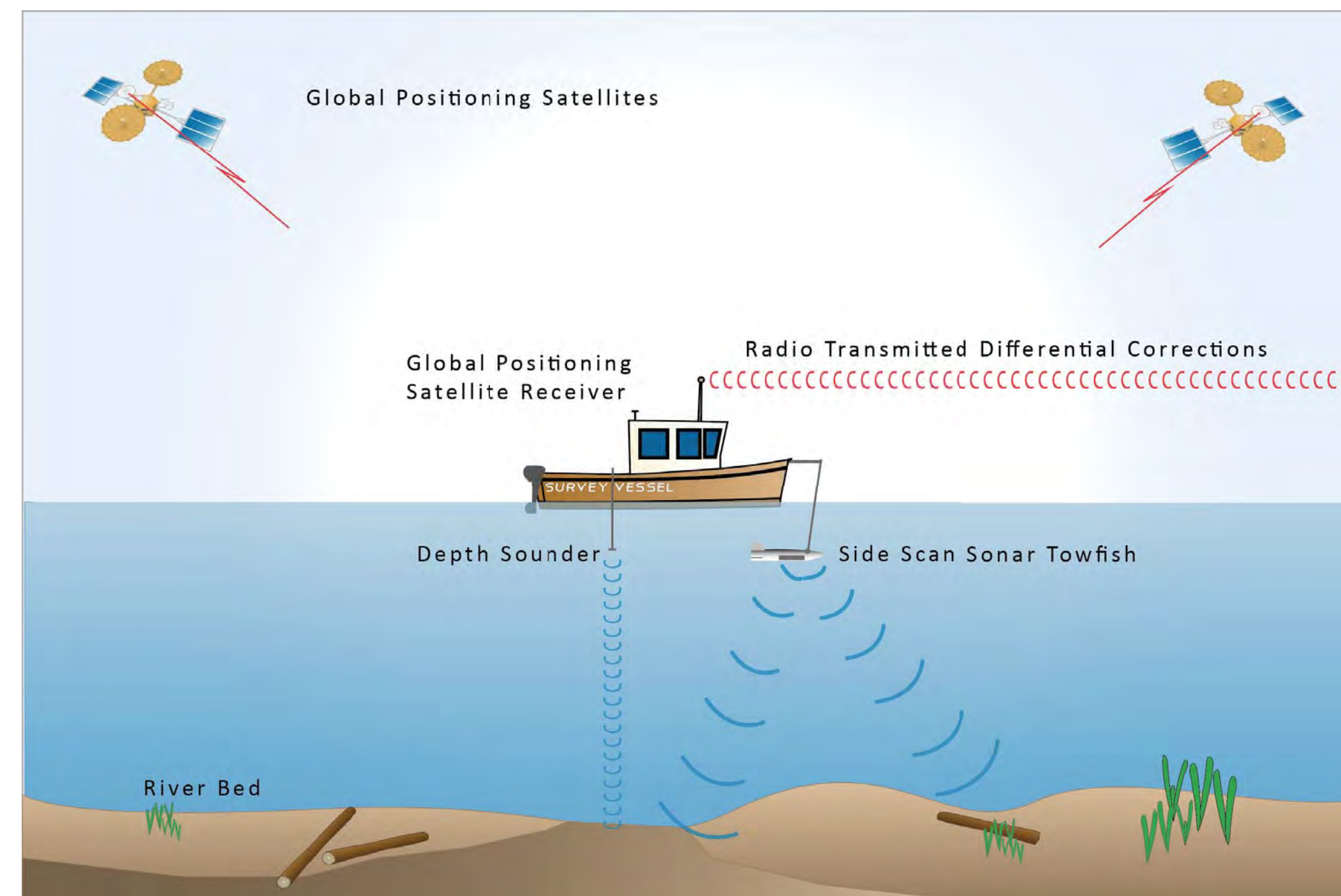
## Side-Scan Sonar and Magnetic Survey Activities

### Side-Scan Sonar Survey

- Document texture of creek sediments
- Document presence of debris and/or obstructions on the creek bottom

### Magnetic Survey

- Document presence of metallic objects in the creek sediments



*Illustration of how underwater survey data is collected*



*Side scan sonar map example from Newtown Creek*



# Newtown Creek Surveys Currently Underway: Above the Water Surface

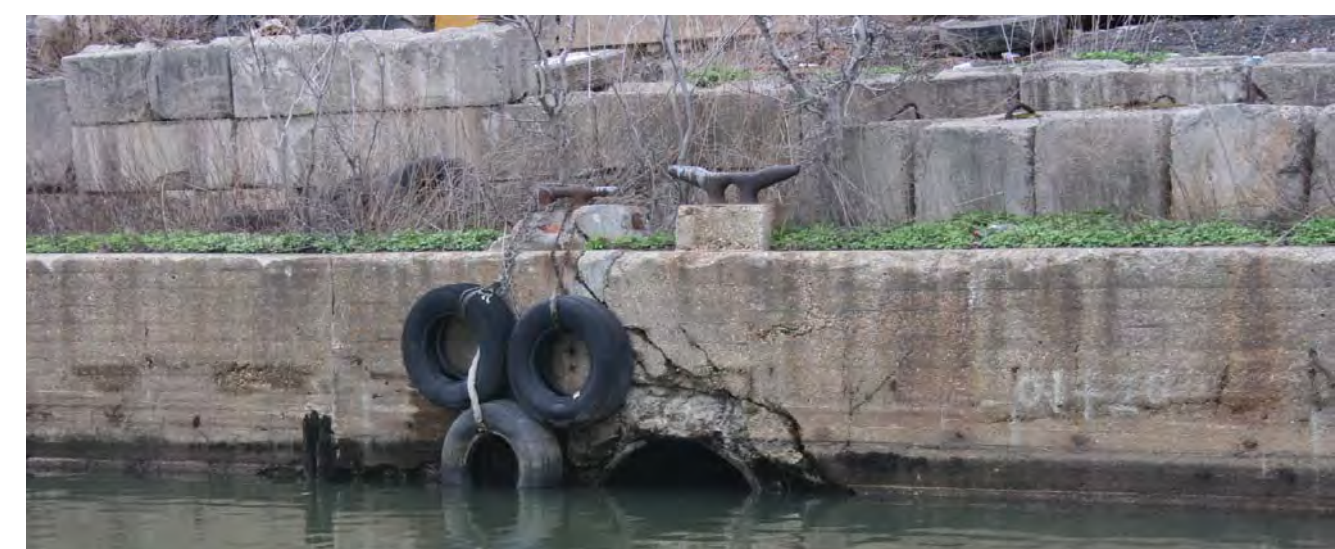
## Aerial Photograph Survey Activities

- Establish photographic record
- Geographic coordinate control tied to aerial image
- Ground-truth shore-based survey



## Shoreline Assessment Activities

- Document habitat characteristics
- Document physical characteristics
- Identify potential sources



*Representative shoreline types at Newtown Creek*



*Shoreline of Newtown Creek looking up English Kills*